



DONELAN CLEARY
WOOD & MASER, P.C.

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March 19, 1999

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MAR 19 1999

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Magalie Roman Salas, Secretary
Federal Communications Commission
Washington, D.C. 20554

Re: Application for Review of Canyon Area Residents
for the Environment of an Order of the Office of
Engineering and Technology dated October 9, 1998;
ex parte communication pursuant to Section 1.1206.

Dear Madame Secretary:

Submitted herewith for filing in the referenced proceeding are an original and one copy of information discussed during meetings yesterday with FCC staff. The materials labeled Exhibits AA, CC, CX and Attachment -- described in my cover memo of March 17th -- are provided in two additional copies, for placement on the record of another pertinent docket, MM 96-62/Blanket Interference.

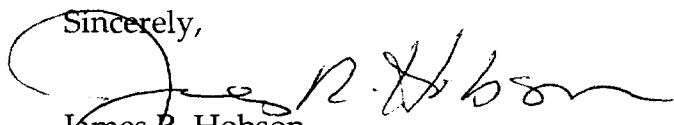
Kevin Groeneweg, President of Paradise Hills Homeowners Association, a group allied with CARE in this proceeding, and the undersigned, as counsel for CARE, met with the persons copied on this letter. In addition to Exhibits AA, CC, CX and Attachment, we discussed the agenda outlined in Attachment 1.

In connection with the NEPA topic, we distributed color copies of the black-and-white chart marked Attachment 2. The discussion of endangered species tracked the information in the Additional Comments of CARE filed March 10, 1999. Similarly, the discussion of historic preservation reiterated information in earlier pleadings, with the exception of Attachment 3, which is new to the record of this proceeding.

Sites mentioned as alternatives to Lookout Mountain included Squaw Mountain, which already hosts some towers, and open spaces in the plains east of Denver.

Please direct any questions to the undersigned.

Sincerely,


James R. Hobson
Counsel to CARE

No. of Copies rec'd 0+1
List A B C D E

cc: Susan Fox, Office of the Chairman; Anita Wallgren, Office of Commissioner Ness; Barbara Kreisman, John Morgan and Shaun Maher, MMB; Bruce Franca, Steve Kaminer and Bob Cleveland, OET; Holly Berland, OGC.

ATTORNEYS AND COUNSELORS AT LAW

1100 New York Avenue, Suite 750, N.W., Washington, D.C. 20005-3934, Tel: 202-371-9500, Fax: 202-371-0900

NEPA

EMR: 100,000 to 400,000% national median

Health risks

Blanketing interference

Environmentally sensitive area

ENDANGERED SPECIES

Preble's meadow jumping mouse

Peregrine falcon

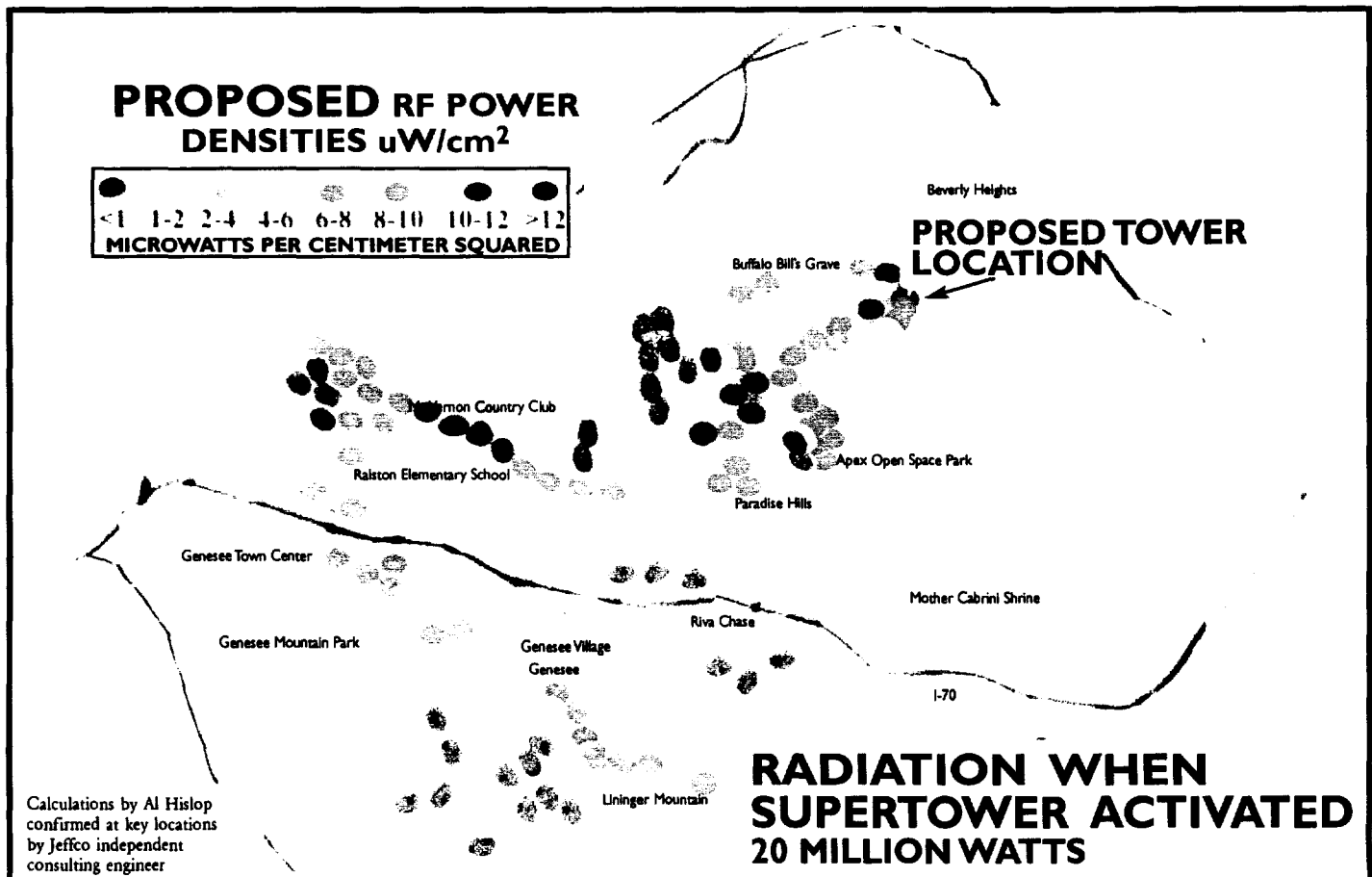
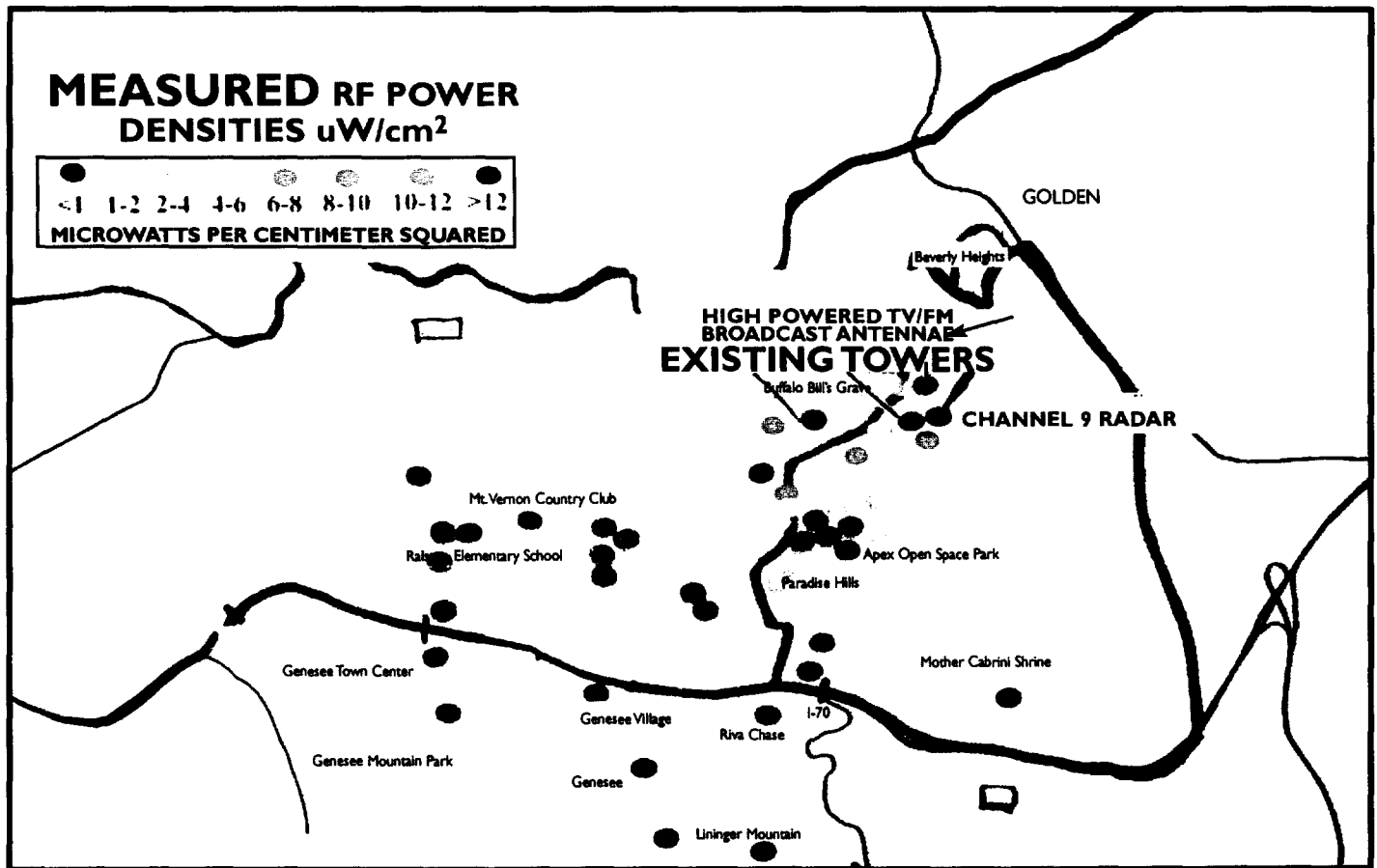
NATIONAL HISTORIC PRESERVATION

Historic places

Archaeological sites

Native American sites

ALTERNATIVES DO EXIST



Attachment 3

PREHISTORIC ARCHAEOLOGICAL RESOURCES ON LOOKOUT MOUNTAIN

March 9, 1999

by
Kristi Butterwick, Ph.D.
583 Hess Avenue
Golden, CO
kbutterwick@sprynet.com

The probability of the existence of significant archaeological sites in the vicinity of the proposed Lookout Mountain SuperTower is high. The first set of foothills bordering the Golden to Morrison corridor of Jefferson County, Colorado contains several significant prehistoric archaeological sites. These very early archaeological sites date to the Middle Archaic Period, from approximately 2000 to 1000 B.C. That several of these early sites occur in the Jefferson County foothills indicates that the Lookout Mountain tower site may also contain early cultural resources.

Since the 1920s, archaeologists from the Peabody Museum of Harvard University, the Colorado (now Denver) Museum of Natural History, and the Colorado State Historical Society have conducted extensive scientific excavations in the Jefferson County foothills to better understand the earliest human migrations into the Americas. Archaeologists suggest that the concentration of Middle Archaic Period sites in the foothills "may indicate a preferred habitat" for the first native peoples occupying Colorado.¹

The scientifically excavated cultural sites in the Jefferson County foothills include the rockshelters of Willowbrook, Ken Caryl, LoDuiska at Morrison, and the open site of Magic Mountain just north of Heritage Square in Golden. Of these, Magic Mountain on lower Lookout Mountain may be considered the most significant as it is placed on the National Register of Historic Properties (5JF223, in 1980).²

The importance of the Magic Mountain site in determining further development on Lookout Mountain is threefold. First, the site contains scientific evidence of extremely early human occupation. Radiocarbon tests date the initial occupation of Lookout Mountain to 4,900 years before present, during the Early Archaic Period when the first peoples migrated over the Bering Strait land bridge to the Americas.

Second, excavations at Magic Mountain reveal a tremendous time depth to the aboriginal occupation of Lookout Mountain. Arrowheads (or projectile points), groundstone like manos and metates, and ceramic pottery dug from the upper surfaces of the site date to the Plains Woodland Period, from A.D. 100 to 1000. Thus, Magic Mountain was occupied by indigenous peoples continuously for 3000 years. The subsequent Historic Period witnessed expansion of the Ute, Cheyenne, and other Plains Indian tribes into the immediate vicinity.

Butterwick - page 2

Third, the findings of intense and prolonged prehistoric occupation at Magic Mountain, combined with the Ute overlook site of Colorow Point (another National Historic Property, and named for the Ute Indian, Chief Colorow), suggest that the lower site of Lookout Mountain may contain significant early and historic cultural resources that must be investigated prior to further destruction of the area.

BIBLIOGRAPHY

Excavations at Magic Mountain, by Cynthia Irwin-Williams. Ph.D. dissertation, Harvard University, 1963.

The Archaeology of Colorado, by Steve E. Cassells. Johnson Books, Boulder, 1983.

Excavations at Magic Mountain, by Cynthia Irwin-Williams and Henry J. Irwin. Denver Museum of Natural History, 1966.

Excavations at the LoDaiska Site, by J.J. and C.C. Irwin. Denver Museum of Natural History 1959.

¹ Cassells 1983:97

² Other sites located on Lookout Mountain in Jefferson County that are listed in the National Register of Historic Properties are the Mount Vernon House (5JF185, in 1970), Colorow Point Park (5JF644, in 1990), Butcher Mansion (5JF23, in 1984), Lookout Mountain Park (5JF648, in 1990), and Lariat Loop Trail (5JF446, in 1990).



DONEGAN, CLEARY
WOOD & MASER, P.C.

March 17, 1999

TO: Barbara Kreisman
Mary Beth Murphy
Anita Wallgren

FROM: Jim Hobson

SUBJECT: Background for visits March 18-19 with representatives of
Canyon Area Residents for the Environment (CARE)

Although you may already have copies in hand, I am enclosing the Additional Comments filed March 10th by CARE – half a dozen sets for Barbara to distribute to the group meeting at 3 p.m. March 18th and a couple of sets each for Mary Beth and Anita to cover separate meetings with them.

Exhibit A to the Additional Comments was a residential survey of 43 residences in the Lookout Mountain area. CARE promised to update the neighborhood inquiries and to keep the Commission apprised. The most recent update, "Exhibit AA," dated March 8th, is attached. It will be included in the *ex parte* submission following our meetings.

The number of residences covered has expanded to 95, and the survey extends geographically to the Genesee area south of Interstate 70, including Riva Chase and Lininger Mountain. The map illustrating the first survey -- Exhibit C to the Additional Comments -- is supplemented here by a two new maps: (1) the Lookout Mountain area with the additional homes marked (Exhibit CC) and (2) a separate map of the Genesee area (Exhibit CX), again with homes marked as dots. A common point of reference linking the CC and CX maps is Genesee Town Centre, which appears at the top left of Exhibit CX and the lower left of Exhibit CC.

CARE's Additional Comments of March 10th reinforced its arguments that environmental impacts of the Lake Cedar Group's DTV proposals require further study. CARE raised for the first time possible effects on the

ATTORNEYS AND COUNSELORS AT LAW

1100 New York Avenue, Suite 750, N.W., Washington, D.C. 20005-3934, Tel: 202-371-9500, Fax: 202-371-0900

habitat of a threatened mammal, the Preble's meadow jumping mouse, and reiterated concerns expressed earlier in the Application for Review and Reply, such as tower interference with raptor and other wildfowl flyways and effects on national historic sites. We will be discussing these matters with you, and will include information in subsequent *ex parte* communications, as necessary.

Recently, we have learned of a letter of February 9, 1999, from the State Historical Preservation Officer at the Colorado Historical Society, Georgianna Contiguglia, addressed to Ava Berland of the FCC's Office of General Counsel. We don't know whether you are aware of this letter, or whether it has been placed on the record of CARE's Application for Review. We are attaching the letter here, together with earlier correspondence to which the letter refers. Again, we will make this material part of our *ex parte* submission covering the meetings of March 18-19.

We look forward to meeting with you and appreciate the time you are making available to us. Earlier, I had said that Steve Howards would be accompanying Kevin Groeneweg ("groon-e-weg," Dutch), who is President of Paradise Hills Homeowners Association. It now appears Mr. Howards will not be with us. Briefly, Mr. Groeneweg is with a large NYSE-traded financial services group and has worked as an investment advisor and a lawyer in the fields of securities and mergers and acquisitions. He holds accounting and master of finance degrees as well as a J.D.

cc: Kevin Groeneweg

March 8, 1999

The following pages are a compilation of what we have learned so far about interference in the Lookout Mountain area. Ninety-five residents filled out the interference forms and returned them to be summarized in a chart. Also included is interference information from the Boettcher Mansion which submitted not only an interference form but also a full letter which is offered to any prospective audio visual users at the Boettcher Mansion which is owned and operated by the Jefferson County Board of Commissioners. Interference information is also included for the Jefferson County Nature Center and was gathered in a telephone conversation between Patricia Roberts and Chris Leahy. Chris referred to a study called "An Examination of Radiofrequency Fields and 60-Hz Magnetic fields at the Lookout Mountain Conference and Nature Center, Jefferson County, Colorado. This study was performed by Richard Tell Associates prior to the construction of the new Nature Center. This study is included here. The new Nature Center was built with shielding in the walls and conduit for the wiring but according to Chris, there is a high likelihood of having interference in any given audio visual program.

The entries in this chart are listed in roughly descending order of RF power density as they spread out away from the towers. They are also plotted on the accompanying map. We have also conducted RF radiation measurements at some of these locations. This is a very time consuming process. It will take many more hours of volunteer work to exactly locate these complaints on the map as well as provide exact RF measurements at each location.

Almost universally, people have experienced interference since the day they moved into their house. While this information is not listed in the summary chart, it can be found on the individual interference forms included in this notebook. It is interesting to note that some residents experience significant interference problems even though they are not in line of sight of the towers. One of the recurring complaints in these forms is about "strategic placement" of equipment. People must place their TVs, VCRs and other electronic equipment in various places in their homes to reduce interference. They are not free to simply place equipment where they would like to use it. One person can't use his modem upstairs. Another can't use his modem at all. At least three families have home studio recording equipment which they can't use because of interference. Many people said they had to buy very high end equipment to get some reduction of interference. Some people had tried three different brands of TVs, phones, baby monitors, etc. The people closest to the towers said that light bulbs burn out frequently and that electronic goods don't last.

What we know at this point is that significant interference can occur where RF radiation is below 1 microwatt per centimeter squared. The most notable interference in a low level setting is on Lininger Mtn. where one family is afraid to use their son's electric wheelchair because it seems to gain speed and the child cannot work the

controls. RF levels at the spot where the wheelchair gained speed were .6 microwatts per centimeter squared. In another area where the family plans to build an outdoor patio, the levels were 1.2 microwatts per centimeter squared. Measurements made by Al Hislop with a spectrum analyzer found that at the top of Lininger Mtn. near this family's home, most interference comes Channels 20 and 59 on Mt. Morrison followed by Channels 7, 31, 6 & 9, and 4 on Lookout Mountain, in that order. Channel 6 & 9 made equal contributions. The observance of interference at less than one microwatt per centimeter squared concurs with Al Hislop's January 26 letter to Tim Carl stating that he had found that people complained of interference when total power densities were less than one microwatt per centimeter squared.

This notebook was prepared by:

Patricia Roberts
64 Lookout Mtn. Cir.
Golden, CO 80401
Tel. (303) 526-2346

LOCATION

LININGER

FREQUENCY (MHz)	ANTENNA ELEMENT LENGTH (inches)	ANTENNA EFFECTIVE AREA (cm ²)	DETECTED POWER (dBm)	POWER DENSITY ($\mu\text{W}/\text{cm}^2$)
55.25 (CH 2)	51.9	36,340	-2	.02
67.25 (CH 4)	42.6	24,540	-7	.04 .01 > .05
83.25 (CH 6)	34.4	16,002	-7	.06
89.3 (KUVO)	32.5	14,283	-13	—
90.1 (KCFR)	32.5	14,283	-8	.01
103.5 (KRFX)	26.5	9,496	-7	.02
105.9 (KALC)	26.5	9,496	-7	.02
106.7 (KBPI)	26.5	9,496	-6	.03
105.1	26.5	9,496	-12	.01
175.25 (CH 7)	16.26	3,575	-4, -14	.11 .01 > .12
187.25 (CH 9)	15.22	3,132	-8, -14	.05 .01 > .06
471.25 (CH14)	5.98	483	-20	.02
507.25 (CH20)	5.70	439	-14, -17	.09 .05 > .14
537.25 (CH25)	5.25	373	-27	.01
573.25 (CH31)	4.92	327	-16	.08
633.25 (CH41)	4.45	268	-40	—
687.25 (CH50)	4.08	225	-36	—
705.25 (CH53)	3.98	214	-41	—
741.25 (CH59)	3.88	204	-16 -26	.12 .01 > .14
765.25 (CH63)	3.67	182	-50	—
TOTAL POWER	16.26	3,575		
TOTAL POWER	13.88	2,605		
TOTAL POWER	3.67	182		

extraneous signals

TOTAL
.79 $\mu\text{W}/\text{cm}^2$

Broadband NARDA .3% W/ 1% peak

STREET	INTERFERENCE PROBLEM	COMMENTS	CURRENT MEASURED POWER DENSITY ($\mu\text{W}/\text{cm}^2$)
Cedar Lake Rd.	False alarms on burglar alarm; poor TV reception; VCR doesn't work properly; interference on stereo, electronic music instruments, answering & telephone machines; problems w/ garage door opener; cable won't work	Tried wiring house with extra shielded cable but it still won't stop interference. My house and yard are bombarded by <u>"ICE SPEARS"</u> in the winter months. They have done damage to my roof & automobiles. I have to wear a helmet.	as high as 12.6
Cedar Lake Rd. (under towers)	garage door openers don't work, bulbs burn out in under a month, TV & radio & phone signals very bad, electrical musical instruments hum	If you err, err on the side of safe guarding our children. Move all the towers!	as high as 12.6
Cedar Lake Rd.	garage door opener opens by itself, TV speakers buzzes, answer machine has static & buzzing, all radios buzz, cable TV has ch. 31 ghosts on all stations	Bought RF filters from Radio Shack. Replaced garage door transmitter 5 times before problem fixed.	as high as 12.6
Aspen Rd. (close to towers)	Hum in phone lines, turn on TV's and can hear radio stations	Call U.S. West (could not fix), went to satellite dish, no help. I don't know if you give a damn so if you don't listen to us, listen for our kids. Do the right thing.	
Aspen Rd.	Unable to get local channels (double vision shadows). When using VCR hear radio in the background. Unable to use cell phone near home.	Got a new VCR, got a special box from Radio Shack to lessen power of the stations coming into house. Didn't help. There is a better solution. Squaw Mtn.! This is a residential community. We don't want to be guinea pigs! Will LCG do something to make our reception better?	
Aspen Rd.	Buzzing, dog collar shocks the dog, shadows on TV, can't record music in studio	Bought chokes (filters) and different things. I consider this trespass on my life and property!	as high as 4

Aspen Rd.	Broadcasts and buzzing over phones & tape players, cannot watch Ch. 24 & 6, excessive ghosting, electronics have <u>short life</u> , remote toys don't work, light bulbs burn out too quickly	Have tried cable, more expensive, better equipment, <u>going without</u> . Would like the resident of Lookout Mtn. to be able to lead a normal life!	as high as 10
Aspen Rd.	KOSI plays on phones, buzzing on phones, radios & tape & CD players, shadows on TV	Tried cable for TV, better phones, moved channels, different places for tape players & radio, etc.	as high as 10
Aspen Rd.	Phone interference, TV reception problems.	Tried buying new phones, got cable	
Aspen Rd.	Radio has 1 high pitch to it and light bulbs go out real fast. Also the TV gets high pitch to it.	Tried to move my radio and TV to see if it is just the location in my house.	
Panorama Dr. (close to towers)	Extreme AM interference, bad phone interference, garage door remotes won't work, etc., etc.	Tried filters, shielding, buying much more expensive equipment. Please do not ignore existing & potentially dangerous problems. I can't believe a new tower would even be considered!	
Panorama Dr.	Extreme phone noise (music), Must sit in certain position for furniture to get reception on TV!	Have tried moving my body from chair to couch. Bought better equipment, the most expensive equipment! <u>If we can't prove these towers cause illness, can you prove they don't???</u> You are possibly endangering health & life. Have you no conscience? We already have additional cancer rates. My concern is the interference death can bring!	
Panorama Dr.	Expensive recording sessions that are not possible to do at home because of interference	You are trespassing on my property.	8 outside 4-8 inside
Panorama Dr. (Buffalo Bill's Grave area)	Terrible interference, telephone, television, audio equipment, computer, car	All possible solutions have failed. I am absolutely disgusted that the proposed tower is even a consideration.	

Columbine Ave. (Panorama Hts., near towers)	Can hear clearly KBPI radio on phone, answering machine, cannot use because of interference, remote for car does not work, interference on TV & VCR, also stereo speakers		
Columbine Ave.	KOSI interferes with all other radio stations	Have tried moving radio to different locations. <u>No more watts on Lookout Mountain!</u>	
Columbine Ave.	Radio and TV transmissions	<u>I don't want new tower!</u>	
Columbine Ave.	Telephone gets radio stations, computer speakers same. Can't get rid of it.	Tried everything including wrapping cards with tin foil. Would you go forward so easily if it was your family potentially being exposed to cancer? We need out of state objective people to look at health effect.	
Columbine Ave.	KBPI radio on phone line-garage door opener? Radio doesn't work properly (static), ghost on TV local stations	Concerned about property values going down.	
Columbine Ave.	We have excessive interference in Tvs, phone lines, and computer speakers. We hear KBPI radio through computer speakers & phone.	Tried to insulate speaker wires w/ aluminum foil and worked at TV setups where we are not using the antenna input for VCRs or satellite inputs. I think aggressive measurements for emission levels should be pursued. Another site should be found. Non-biased health studies should be completed. Can't imagine worse interference.	
Lookout Mtn. Rd. (vicinity of towers)	Radio programs on all cordless phones & computer speakers. TV signal good to complete blank out repeatedly. <u>Replaced 4 computer hard drives in 5 months!</u>	Have tried disconnecting. <u>You have no regards for residents in the area.</u> My thoughts about new tower: <u>sorry!</u>	2.36
Lookout Mtn. Rd. (vicinity of towers)	<u>Hearing the radio on the telephone and hearing aid.</u>	My husband died of cancer, Nov. of 1986. We lived next to the KYGO radio station. <u>I don't want the tower!</u>	

Main Ave. (near towers)	Radio station over phones, static over radios, TV ghosts.	Have monster cables, suppressor in electrical equipment. If any doubt there might be a problem, which there is, <u>don't add towers!</u> There would probably be more interference from new tower.	
Parkview	Radio on TV when off, radio on answering machine, VHS recorder doesn't work	Can all Lookout Towers. Remove existing towers!	
Parkview	Blurry	Tried direct TV. Thoughts on new tower: Negative	
Sky Meadow	Could not use baby monitors. Tried 3 different models, they picked up outside signals. Cable TV reception poor on local channels.		
The Boettcher Mansion	There are lines in computer & TV screens. There is static in speakers or amplifiers.	We tried wrapping wire/cord in tin foil, moving equipment to different locations, using different outlets & special clips for cords. (See page for prospective users of audio & video equipment)	6-14 outside mostly 2-4 in Fireside Rm, hotspots 6-8
The Nature Center	In spite of the fact that the building was built with shielding in the walls and conduit for all wiring, there is a high likelihood that any audio visual program will have interference. Sometimes the in a video the sound or picture or both will get dragged down as if you were slowing the playing speed way down. Interference includes buzzing.	The Nature Center tries focus the programs on outdoor activities, rather than on audio/visual programs. There is no spot in the building which is appropriate for audio visual which seems to be immune to the interference problems. Tapes which are copied from one player to another play just fine at other locations, far from the broadcast towers. (Info via telecom w/ Chris L.)	
Golden Point Dr. (under ch. 6 tower)	Poor radio reception, different TV channels on different floors, telephone interference, computer audio pulses, garage door opener won't work or garage door just goes up.	Have tried ignoring, changing combination on garage door. Thoughts on additional interference from new tower: Too much now!	10
Golden Point Dr.	VCR, telephone, TV, radio		10

Ballantine Rd. (near Ch. 6 tower)	Buzzing in audio equipment--not the cheap stuff.	Swapped three times to different equipment. Don't do new tower!	
Ballantine Rd. (near Ch. 6 Tower)	Noisy telephone (replaced with new one) Telephone still buzzes. Noisy TV (replaced with new one) Continuous problems w/ poor TV reception, buzzing in audio systems	Do not add to the problems we already have.	
Ballantine Rd.	TV scrambling, radio interference	Six months living here has not given us ample opportunity to experience all problems; our house is in remodeling mode. New towers mean: problems, problems, problems.	
Ballantine Rd.	Severe interference with TV signal and cable signal. Also, no ability to use a modem in upstairs of house. Unable to connect due to noise. Cable signal is interfered with only on Ch. 2-9	Solution: Satellite	
Colorow Road (800 feet from Ch. 6 towers)	Garage door opener does not always work. TV & VCR interference. Constant radio station on telephone. Cannot use cordless phone.	Tried new phone, new VCR, gadgets & calls to help w/ interference. No new tower! We don't need it!	
Lindsey Rd.	TV interference, ghosts, snow, some channels won't come in. Radio interference.	Called TV & others for professional help but to no avail. Can't see towers. I feel that more (& independent) companies should make & present data on RF. Fcc & other independent studies do not agree.	
Pinecrest Rd. (Rilliet Park)	Poor reception on TV, Ch 6,4,& 7	Have tried calling provider. Can't see towers.	
Woodland Lane (Lookout Mtn Crest)	Interference-ghosting-terrible reception	Tried calling cable TV- still have bad interference. Can't see towers.	
Zephyr Ave. (Lookout Mtn. Crest)	Shadows on TV reception from rabbit ears antenna	Tried various antennas & cable. Can't see towers. <u>Why not put new tower on Squaw Mountain?</u>	

Zephyr Ave.	Static on cable, crackling on phone lines	Tried different phone lines, turned off TV. Can't see towers. My family hikes, bikes, horseback rides, etc. by the towers and in range of their waves. This cannot be a healthy environment, as it <u>SHOULD</u> be. Thought on new tower: Very concerned about health and property values!	
Zephyr Ave.	TV(ghosts 2,6 &4) & telephone interference (cuts off)	Cable company says nothing can be done. Can only see part of Ch. 6 tower. Put towers outside of populated areas.	
Colorow Rd.(1 mile from towers)	Cable TV has significant interference on ch. 2,3,7,9 requiring us to switch to regular antenna when viewing. Cordless phones only work well with 900 mhz digital spread spectrum.	If an alternate site is available with lower population density... that alternate site should be selected. Thoughts: Interference can only get much worse!	
Colorow Rd.	Multiple pictures, interference at certain times, no clear reception on some channels, snow, streaks, etc.	Tried antenna filters, electronic signal control.	
Lookout Mtn. Road (Panorama Hts.)	Interference with telephone, tape player, garage door opener, telephone answering machine.	Tried moving phone, tape player & radio to different location in house. West side is definitely worst (by towers). More towers: Obviously it will be greater problem. It will affect real estate prices & health in the area and there is no excuse to let a whole community suffer for the greed of one organization.	
Grandview Ave.(Panorama Hts.)	Phone line & TV interference	Tried consulting with US West. <u>Commissioners: Listen to us!</u>	
Grandview	Garage door openers do not work, RF interference in radio reception.	Have tried antenna configuration changes, manual garage door. <u>This is a zoning change that the surrounding community does not want. Does the commission approve strip clubs or liquor stores that require zoning changes that the community doesn't want?</u>	

Grandview	Can't get local stations' can't get radio	Tried antennas, called cable people. NO help, can't help. <u>Do the right thing for us. We don't want a fight-but neither does Jeffco. Get rid of existing towers!</u>	
Bellevue Rd. (Panorama Hts.)	Terrible reception, ghost images, radio sound on computer speakers, baby monitors, etc.	Cable company has been out many many times & cannot correct the problem. <u>We have 2 young children at Ralston Elementary. We are very concerned about increased EMR at this school!!!</u>	
Alpine Ave. (.7 mi. south of towers)	TV/FM stations on telephones	Don't allow new towers-problem already severe enough! With new tower: Likely to be worse.	
Alpine Ave.	Radio transmissions are received through my business computer speakers & also my phone lines in my home office.	Have tried moving equipment to other locations in home. Doesn't help. After moving here, I experienced 3 miscarriages for which doctors could not pinpoint the cause. Radiation has been proved to be a teratogen to developing fetuses. It is unprofessional & embarrassing to have my clients call & hear music or echoes on the line. I may lose business because of it.	
Mountsfield (Panorama Estates)	Cordless phones-much static. TV even with cable-poor reception, "ghosts."	Tried cable TV.	.08-.63 (next to communications relay tower)
Mountsfield Dr. (Panorama Estates)	106.7 radio station broadcasts on all phones (hardwired especially) and in background on TV & stereo.	Don't know what to try. Tried new phones & new stereo to no avail.	3.0
Mountsfield (Panorama Estates)	We get music on our answering machine, phone & computer speakers.	Tried in line filter & chokes to no avail.	

Mountsfield (Panorama Estates)	Background hum on most electronic devices including FM receivers,TV, phones.	Tried line filters (several types), antenna filters. Purchased new TV 2/15/99. Interference through speakers such that I plan to return TV. Additional transmitting devices would probably increase problems.	
Mountsfield	Interference on televisions, radios, VCRs, keyless car locks, garage door opener.	Only certain brands of TVs & VCRs will reduce interference. (Panasonic in particular) Can see Lookout & Mt. Morrison towers. Towers should be constructed at another location. Radiation & interference will triple.	
Mountsfield	Music picked up by phone lines; TV by aerial & some cable stations have interference (double images & fuzzy); insomnia/sleep disorders; irritability; anxiety attacks; cell phone interference; visitors have been unable to unlock keyless car locks	Cable TV limited to some stations; More trips away to Mexico jungle helps insomnia & irritability; medical help sought for irritability; medication for anxiety attacks; We live with the problems (as is but no worse). Can see both Lookout & Mt. Morrison towers. The impact of the tower controversy on property values is already being felt. Without a proper environmental study to prove no health impacts, it would be unconscionable to permit more radiation.	
Mountsfield	Poor TV reception channels 2,4,6,7,& 9 even with cable TV. Poor FM reception.	Have tried moving radios & TV sets to different location in house. I am strongly opposed to new tower.	
Panorama (Panorama Estates)	Telephone interference, severe and continuous until phone company installed some kind of filter on our line. Also, intermittent TV problems: jumping channels, crazy diagonal lines, etc., ghost images frequent.		

Panorama (Panorama Estates)	All network stations which have a tower presence on the mountain come in like a double negative picture. Living room reception is impossible to view. We receive broadcast via antenna or VCR connection instead of cable box. We moved TV around room.	We see Mt. Morrison tower. We didn't move to CO for a better lifestyle with family values & quality of life as central issues only to later find out we'd be radiated & worry about endangering our family. If my TV is getting the interference, obviously all the residents are being exposed as well.	
Panorama (Panorama Estates)	Blackout on cell phones	Tried to compare analog vs. digital service. 1st concern about health which we don't have the technology to adequately measure.	
Crestmoor Rd. (Panorama Estates)	Constant static in KUOD radio reception, computer board crashing frequently in last 6 mo. for <u>no</u> perceptible reason (a \$500 repair) such as lightning. Tried small antenna on house-gave up-no help in any way. Can only see Mt. Morrison towers, not Lookout Mtn.	<u>We do not want to be part of a test for which answers won't be known in another 5-10-15 years. We do not want an environmental disaster in form of a huge building w/ numerous antennas on the front ramparts of the mtns. for the entire Denver area to see, let alone constant light, guy wires & danger to aircraft from a tall tower. Omni directional usage is deleterious, contrary to Jeffco Telecom Plan. Co. School of Mines had interference in Geophysics Dept. at least 20 yrs. ago with electronic equipment.</u>	
Crestmoor Rd. (Panorama Estates)	Television channels 2,4,6,9,20 have lines through them.	Can't fix this. We see Mt. Morrison tower. <u>Deny both towers!</u>	
Crestmoor Rd. (Panorama Estates)	Loud buzz when playing tape on VCR in living room. We usually use VCR in basement. Loud buzz on fax line about half the time. No solution found. Have to switch back & forth between cable & non cable TV-local TV stations don't work on cable.	Can see both Lookout & Morrison Towers. Commissioners: <u>Letter written dated 2/1/99 with several questions & requesting a response. Adamantly opposed to higher levels of radiation-ours would increase 28 times according to CARE's calculations.</u> (county consultant confirmed CARE's calculations)	.81

Lookout Mtn. Rd. (near Panorama Estates)	telephone interference	Can see Lookout Mtn. towers. Don't allow more!!!	
Lookout Mtn. Rd. (about 1&1/2 mi from towers)	Telephone interference	Tried to disconnect power for 2-3 minutes to reset telephone. <u>Tower should be delayed so further study can be done.</u>	
Lookout Mtn. Circle (Paradise Hills, 1&1/2 mi from towers)	Buzz on stereo, interference on cable, wireless doorbell rang spontaneously, ups digital scale won't work upstairs, shortwave radio picks up too much interference, telephone interference, karaoke machine interference, child's electronics kit useless, child's digital thermometer kit useless, phone headset interference	Can't have stereo in living room, installed switch on cable, removed doorbell, put scale in basement, can't use shortwave radio, karaoke machine, child's electronics kit, thermometer kit, bought 9800 Mhz cordless phones, put up with ch 9 radar beep on phone headset. <u>Wrote letters on 12/26/98 & 1/8/99. Nobody answers. I am very angry. With new tower, interference would further decrease our quality of life. How many people pay \$5,365 in property taxes & can't have stereo in living room?</u>	5.7
Lookout Mtn. Circle	Electronic interference; noise on telephone; poor AM reception; ghosting on TV signals	Tried filtering, shielding, must purchase high end consumer products to reduce, but not eliminate interference problems. Strategic placement of electronic equipment. Can see both Lookout & Mt. Morrison. The county commissioners must protect the quality of life & health of all its citizens. Alternate sites must be considered. Can't take any more EMI.	
Charros Dr. (Paradise Hills)	TV interference w/ antenna, continued to some degree w/ cable. Garage door opens, severe radio interference.	Tried switching to cable, installed new garage system. Can't see existing towers.	
Hess Ave. (near fire house)	Ghosting on televisions	Cable company has come over & over. Thoughts additional interference: <u>NO</u>	

Paradise Circle (Paradise Hills)	We use cable, antenna or nothing depending upon which station we want to watch.	I have young children & I am very concerned about their potential risks. <u>Move the tower to a place with no inhabitants.</u>	
Paradise Rd.	Poor TV reception. We don't have cable TV. Poor AM & FM reception. Interference on Karaoke machine & computer speakers. Some places in the house use of portable phone is not possible.	Tried 3 types of rabbit ear antennas. Blocking direct line of site transmission signals with a body helps. Tried foil & coat hangers also.	
Paradise Rd.	Cell phone, radio, TV, video camera & tape player interference. Pick up radio stations when copying tapes & loud static on video camera.	Tried variety of antennas. We don't need additional towers on Lookout Mtn. especially if other sites are less occupied and work as well. With new towers EMI, clutter & health concerns will increase.	
Cabrini Blvd. (Paradise Hills)	Computer, radio, some stations have static &/or another station interfering. Some TV stations have poor &/or irregular reception.	Have tried adjusting radio & TV antennas.	
Sunrise Drive (Paradise Hills)	Phones ringing with no one calling; voice mail keeps dropping off line; cable TV reception terrible, changes channel w/o being selected; extensive video "noise" & ghosting.	Phone & cable companies have been out numerous times and cannot remedy problems. We pay more taxes than tower operators so please listen to affected homeowners. If I had known this was transpiring, I <u>never</u> would have moved in here. I have been exposed to substantial radiation previously in my employment. I can see both Mt. Morrison & Lookout Mtn. towers.	
Park Circle (Paradise Hills)	Poor TV reception w/ cable, cable installer said, "It's because of those towers!"	Can't see towers. Thoughts on new tower: NO!!!	

Lookout Mtn. Road (near Lookout Church)	Noisy telephone lines precludes data transmissions/Ghosting & shadows on TV Channels 52, 7,9. Radio transmissions have too much static for enjoyment. Ch.4 is not at all visible. Hardwired smoked detectors go off w/o explanation.	Telephone company continues to try different trunk lines with little to no success. Cablecomm offers A/B switches and no other suggestions. We just accept no local stations. We see Mt. Morrison towers & two tallest on Lookout. How could new tower be anything but a detriment to our health & lifestyles. There has to be a better location. NO NEW TOWER!	
Cody Park Rd.	TV interference, radio problems, cable TV problems.	Tried special grounding, ground fault interrupters. Can see Lookout towers. I had cancer. We don't need any more radiation exposure. Scares us to death!	
Cody Park Rd.	Local channels (2,4,6 & 9(some)) come in with no cable or antenna attached to TV/VCR. With cable attached, picture is unviewable, vertical bar through picture.	There is no good solution to be able to record programs when you're not there if you want to record a cable channel and a broadcast channel. With ground of cable disconnected, broadcast channels come in better but cable doesn't.	
Pine Rd. (Cody Park)	Phone conversations constantly cut off. Power surges. Have to reset clocks. Lights always flicker.	Can't see towers.	.5
Pine Rd. (Cody Park)	Interference on all TV stations, local stations worst. Interference with phone service, cuts out & static. Complained to cable company. Can't get satellite service, trees, etc. US West no help.	Death risks to humans & wild life. What about plant life? Why was health study only concentrating on brain cancer? Radiation increases risk of many cancers. With new tower, things can only get worse. How can ch. 6, PBS be willing to promote an antenna that constitutes a risk to the public? Also, who wants a building the size of King Soopers on the mountain? I always thought Colorado was interested in preserving the environment. Do we have to ruin everything?	.5

Pine Rd. (Cody Park)	No local TV reception. Cable installation did not change bad reception.	Cable company has tried to adjust twice. Cable co. replaced main satellite dish. Surely in this age of technology there is a way to have a less intrusive method of communication. Health risks should be first concern. This cannot contribute to quality of life. Wouldn't broadcasters rather leave a legacy of positive contributions?	
Pine Rd. (Cody Park)	Telephone interference and radio interference. Tried telephone company and channel changes on my cordless phone.	Commissioners: Would you be willing to move your family into the area of the towers if you permit more to be built? If we have trouble now, how can things possibly get better with a bigger tower? (See CARE predictions)	.5
Lookout Mtn. Rd. (near entrance to Mt. Vernon) Cabrini	Garage doors opened in middle of night. TV cable reception bad. Tried locking garage door, got satellite TV.	Can't see towers. Commissioners: <u>Think as though you lived up here.</u>	
Pondview P. (Genesee Village)	TV interference		
Genesee Vlg Rd. (Genesee Village)	Have music & recording equipment, interference overrides including radio or TV transmissions, causes recording problems. Ghosts on TV.	Tried putting all gold cable equipment from each unit but can't eliminate it. With new tower the problem will multiply.	
Deer Valley Rd. (Genesee Village)	None of the local TV channels can be received clearly. The cable reception also stinks.	Had satellite dish installed but they don't get the local channels. We already have reception problems in the area and we don't need any more. We also don't need any more radiation in the area. We don't need another tower in our back yard.	
Columbine Glen Ave. (west of Rockland Church)	Can't use upstairs phone due to radio interference, TV reception heavily shadowed. Tried many different TV antennas, no improvement.	Can't see towers. Commissioners: <u>Approve this and I will strongly support your opponent in the next election</u>	

Nakota Dr. (Riva Chase)	Ghosting, bad sound- Channel 4	Tried turning off cable, tried rabbit ears. Can see Lininger tower. (Mt. Morrison?)	
Nakota Dr. (Riva Chase)	Radio sounds on telephone	Phone company checked, verified outside interference. Have you seen Civil Action? It's based on a true story. I just moved here!!	
Shingle Creek Rd. (Genesee Reservation)	Electric remote toys start & stop on their own.	We can't use these types of toys or devices in this home. Please put the towers somewhere where they won't cause interference or health problems. There are many other locations with no population that would be suitable.	
Shingle Creek Rd. (Genesee Reservation)	Static interference with cordless phones & baby monitor. Static levels variable and occur randomly.	No solutions. New tower makes bad worse, especially with new baby on the way.	
Snowberry Dr. (Genesee)	Radio station picked up on children's monitor	Tried changing settings, no results.	
Spruce Drive (Lininger Mtn.)	Radio plays through computer speakers, garage doors open by themselves, telephone frequently out of service, poor radio reception in basement.	Don't know what can be done. Clear line of sight to Lookout towers.	.6
Hagler Dr. (Lininger Mtn.)	phone interference- background noise, i.e. radio station music, also "fast busy" tones when trying to dial out of home. Called US West to report, no results or change. Double images on Ch. 2 & 4, sometimes 7 & 9.	Can't see existing towers. Commissioners: I would only agree to these new towers if you could <u>absolutely without</u> doubt guarantee there would <u>never</u> be any negative health impacts to our family while living on Lininger Mtn. Thoughts on interference with new tower: Will only get significantly worse.	.5 outside .4 inside (living room) .3 downstairs but no problem there
Hagler Dr. (Lininger Mtn.)	You can hear a radio transmission when you're on the phone	Have Clear line of sight to Lookout Mtn. towers.	.6

Lininger Dr. (Lininger Mtn.)	My 10 yr. old son's electric wheelchair seems to pick up speed when used outside. Controls are not in his reach.	We do not use electric chair at home or outside. We see Mt. Morrison tower.	1.2 outside patio .6 where wheelchair was
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1 KM

1 KM

**MT. VERNON
COUNTRY CLUB**

**RALSTON
ELEM. SCHOOL**

MT. VERNON VILLAGE

**GENESEE
CROSSING**

EXIT 254 *La. Emergreen*

U.S. 40

1-70

**COLDWELL
BANKER
VAN SCHAACK**

CODY PARK

RILLIET
KREIVION PARK

**MT. VERNON
ESTATES**

**CLEAR CREEK
HEIGHTS**

**JEFFERSON
COUNTY
NATURE
CENTER**

LOOKOUT MTN. P.
4 CH

**PANORAMA
HEIGHTS**

PRIVATE RDS:
Coleman Dr.
Cloverdale Rd.
Go-ah-gua Rd.

LOOKOUT MTN.
PARK. EST.

LOOKOUT MTN. CREST

PANORAMA
HEIGHTS

**PANORAMA
ESTATES**

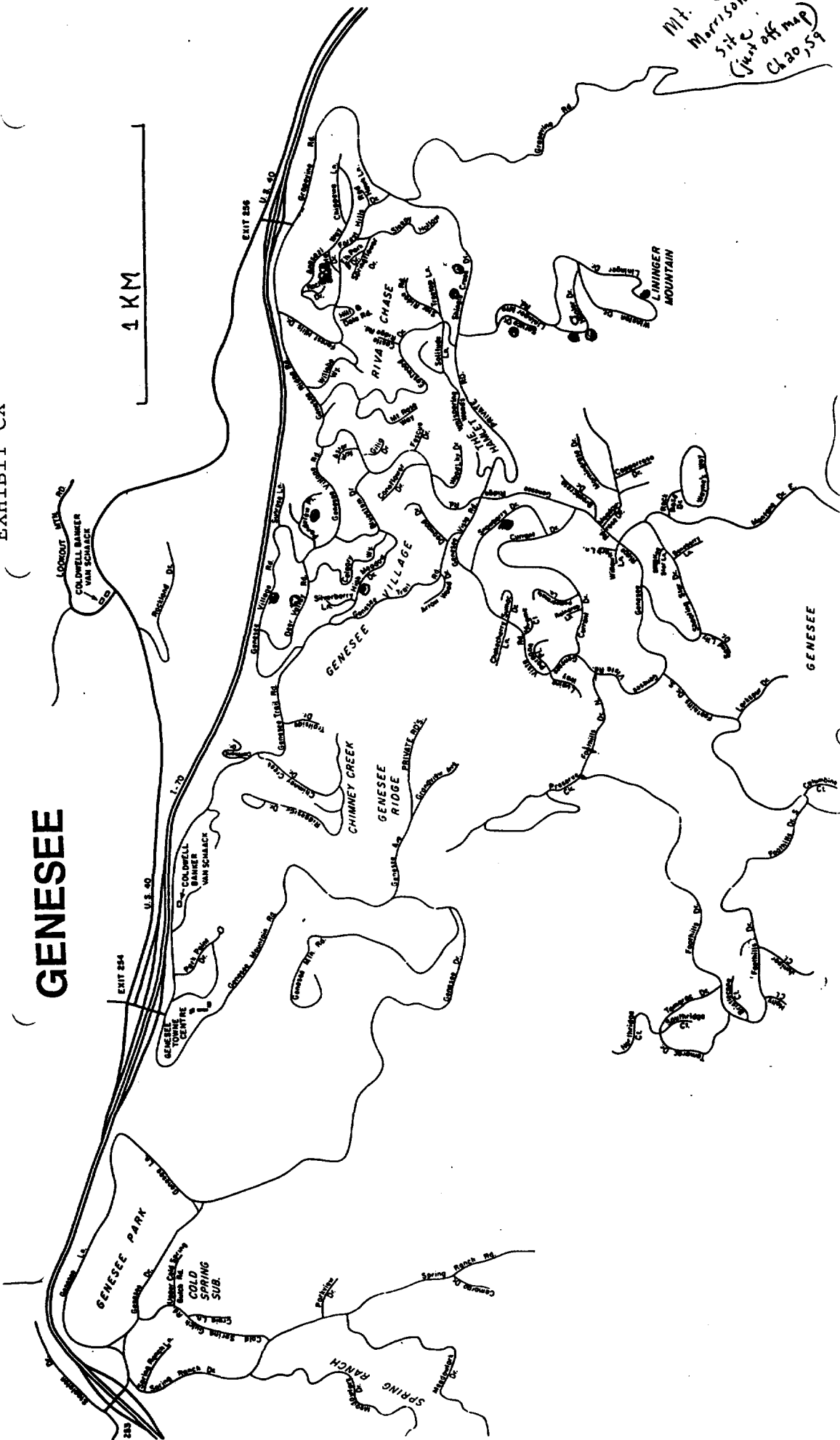
PARADISE HILLS

256

GENESEE

1 KM

Mt. Morrison
Site
(just off map)
Ch 20, 59





**COLORADO
HISTORICAL
SOCIETY**

ATTACHMENT

The Colorado History Museum 1300 Broadway Denver, Colorado 80203-2137

February 9, 1999

Ava Berland
Office of the General Counsel
Federal Communications Commission
1919 M Street NW, Room 616
Washington, DC 20554

Re: HOTV Project Facility, Lookout Mountain - Golden, Colorado

Dear Ms. Berland:

We have recently received additional information from interested citizens regarding the above project, which was proposed by the Lake Cedar Group. When we offered our July 30, 1998, response (Copy enclosed.), we did not comprehend the size of the tower and its associated building.

The following properties listed in the National Register of Historic Places are located in the vicinity of the proposed facility:

Lariat Trail Scenic Mountain Drive (SJF446)
Lookout Mountain Park (SJF648)
Lorraine Lodge/Charles Boettcher Summer Home (SJF323)

Due to the dimensions of the tower and building, we request the following additional information to assist us in offering our opinion as to whether any of the above historic properties are within the area of potential effects of this project:

- * A photograph of the existing tower complex with the proposed tower and building superimposed to scale.
- * Photographs taken from the above three properties showing the existing views of the tower complex from these perspectives.
- * Photographs from these properties with the new tower and building superimposed, taken from the same vantage points as above.

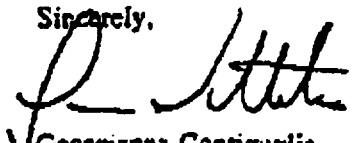
OFFICE OF ARCHAEOLOGY AND HISTORIC PRESERVATION

303-866-3392 • Fax 303-866-2711 • E-mail: pio@nhl.net • Internet: <http://www.cogmn.org>

Ava Berland
February 9, 1999
Page 2

Once we have had an opportunity to review this information, we anticipate that an onsite visit may be necessary to enhance our understanding of potential alterations, if any, to the setting, feeling and association of these historic properties. If we may be of further assistance, please contact Kaaren Hardy, our Intergovernmental Services Director, at (303) 866-3398.

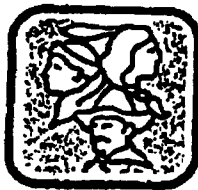
Sincerely,


Georgianna Contiguglia
State Historic Preservation Officer

GC/KH

Enclosure

cc: Charlie Foster, Lake Cedar Group
Steve Friesen, Buffalo Bill Memorial Museum
Jack Raven, Jefferson County Historical Commission



COLORADO
HISTORICAL
SOCIETY

The Colorado History Museum 1300 Broadway Denver, Colorado 80203-2137

July 30, 1998

Charlie Foster
Lake Cedar Group
FAX # (303) 694 -3644

Re: HOTV Project Facility - Lookout Mountain, Golden

Dear Mr. Foster:

This is to acknowledge receipt of your July 29, 1998 correspondence concerning the above proposed project.

A search of the Colorado Cultural Resource Inventory indicated that there are no known cultural resources within the area of potential effect. Based on the information supplied, we believe the present nature of the proposed project area is such that no further impact upon cultural resources will occur. Therefore, the undertaking may proceed upon approval of the appropriate agency.

However, if previously unidentified archaeological resources are discovered in the course of the project, work must be interrupted until the resources are properly evaluated in terms of the National Register of Historic Places eligibility criteria (36 CFR 60.4) in consultation with this office.

Thank you for the opportunity to comment. If we may be of further assistance, please contact Jim Green at (303) 866-4674.

Sincerely,

Georgianna Contiguglia
State Historic Preservation Officer

GC/WJG

applicant

FAX TRANSMISSION

866-~~27~~2711

JIM GREEN @ COLO. HIST.

CHARLIE FOSTER

JULY 29, 1998

NUMBER OF PAGES, INCLUDING COVER SHEET

2

IF YOU DO NOT RECEIVE LEGIBLE COPIES OF ALL PAGES, PLEASE CALL BACK AS SOON AS POSSIBLE.

TELEPHONE: (303) 740-7440

FAX NUMBER: (303) 694-3644

MR. GREEN - WE ARE PROPOSING A NEW HIGH DEFINITION TV TOWER FACILITY ON LOOKOUT MOUNTAIN. THE HDTV PROJECT IS BY THE LAKE CEDAR GROUP LLC, A CONJUNCTIVE EFFORT OF 5 TV STATIONS. A NEW TOWER AND BUILDING WILL BE CONSTRUCTED JUST SOUTH OF THE CH. 4 TOWER, THE TALLEST TOWER AS YOU LOOK AT LOOK OUT MTN. THEN THIS EXISTING CH. 4 TOWER ALONG WITH CH 7, 9 & 6 TOWERS WILL BE TAKEN DOWN. SO, WE'LL BUILD ONE AND REMOVE 4.

THE PROPOSED SITE FOR THE FACILITY IS ABOUT 2-3 ACRES ON THE EAST SIDE OF LOOK OUT MTN, AS SHOWN ON THE ATTACHED MAP. AN ADDITIONAL 80+ AC. WILL BE COMMITTED TO OPEN SPACE.

Location: SW 1/4 SECTION 4, T4S, R70W

I WOULD APPRECIATE IT IF YOU COULD FAX YOUR RESPONSE TO: LAKE CEDAR GROUP LLC
PROPOSED HDTV FACILITY
FAX # (303) 694-3644
THANK YOU!
CHARLIE FOSTER